

CLAIMS

1. An optical apparatus for the optical detection of an object having identifying data stored in satellite-aided transmission systems, comprising:
 - an optical fine focus;
 - a first measuring device to detect distance to the object;
 - a second measuring device to detect an angle of inclination between the apparatus and the object;
 - a direction detector to detect the direction to the object;
 - a positioning system to detect a location of the apparatus;
 - a third measuring device to detect the altitude of the apparatus;
 - a display;
 - a receiver to receive wireless signals; and
 - a computer to process location data to determine identification data of the object coupled to the first measuring device, the second measuring device, the third measuring device, the positioning system, the receiver, the direction detector and the display;
 - wherein the location data is selected from the group consisting of:
 - distance, angle of inclination, wireless signals, location of the apparatus, direction, altitude and combinations thereof; and
 - identification data for the object appears on the display.
2. The apparatus of claim 1 wherein location is determined using a navigation satellite and the positioning system is a global positioning system (GPS) and the wireless signals comprise satellite signals.
3. The apparatus of claim 2 wherein the first measuring device is a distance detector, the second measuring device is a goniometer, the third measuring device is an altimeter, and the direction detector is a compass.
4. The apparatus of claim 3 wherein the computer compares the location data with electronic information to determine the identification data.
5. The apparatus of claim 4 wherein the electronic information comprises a digital map.
6. The apparatus of claim 4 wherein the electronic information is stored in the computer.

7. The apparatus of claim 4 wherein the electronic information is downloaded to the computer.
8. The apparatus of claim 1 wherein the display is a liquid crystal display with transparent electrodes on the display surface.
9. The apparatus of claim 1 wherein the display is a printer.
10. The apparatus of claim 1 wherein the computer cooperates with a sound producing apparatus and a loudspeaker and the identification data is processed into audible signals.
11. A method of identifying an object comprising the steps of:
 - obtaining an optical apparatus, said optical apparatus having the ability to focus on the object;
 - focusing on the object with the optical apparatus;
 - determining location data, said determination of location data comprising the steps of:
 - determining direction of the object relative to the optical apparatus;
 - detecting the distance between the optical apparatus and the object;
 - detecting the angle of incline between the optical apparatus and the object;
 - detecting the location of the apparatus; and
 - measuring the altitude of the apparatus,
 - processing location data to determine identification data; and
 - providing identification data to a user.
12. The method of claim 11, wherein the identification data is provided on a display.
13. The method of claim 11, further comprising the step of printing identification data.
14. The method of claim 11, further comprising the steps of:
 - translating identification data into acoustical signals; and
 - broadcasting the acoustical signals.
15. The method of claim 11, wherein the optical apparatus is selected from the group consisting of binoculars, camera, video recorder, and digital recorder.

16. The method of claim 11 wherein the location data is processed by comparing the location data to the electronic data, and said electronic data is stored in a computer in the apparatus.

17. The method of claim 11 further comprising the step of downloading electronic data wherein the location data is processed by comparing the location data to the electronic data.

18. The method of claim 11 further comprising the step of updating the location of the apparatus based on data related to the object.

19. The method of claim 18 further comprising the step of displaying the updated location to the user.